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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/574,398	05/19/2000	Ruslan Belkin	15437-0113	7210

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EXAMINER

HALIM, SAHERA

ART UNIT	PAPER NUMBER
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2157

DATE MAILED: 06/19/2003 //

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/574,398

Applicant(s)

BELKIN ET AL.

Examiner

Sahera Halim

Art Unit

2157

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 May 2000.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3-7, 10.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

1. Claims 1-27 have been examined.

Specification

2. The Applicant is reminded to update the related applications information on page 1. For example the serial number for the application filed on March 14, 2000. Appropriate correction is required.

3. The disclosure is objected to because of the following informalities: The background information is incomplete. Page 2 starts in the middle of a sentence. Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1, 2, 9, 10, 11, 18, 19, 20 and 27 are rejected under 35 U.S.C. 102(e) as being anticipated by Courts et al., U.S. Pat. No. 6,076,108 (hereinafter Courts).

6. Regarding claim 1, Courts discloses a computer system, comprising (abstract):
a shared storage (abstract; global session server (212));
a first server process, said first server process servicing a first request pertaining to a particular session, said first server process storing session information pertaining to said particular session in said shared storage; and a second server process, said second server process servicing a second request pertaining to said particular session, said second server process accessing said session information from said shared storage and using said session information to service said second request (abstract, Courts et al. discloses receiving a request from a user that initiates a user session with the web system and processing the request to provide a web page to the user. Session data (220) representing a state of the user session is stored in memory in a global session server (212). Then, for each subsequent request associated with the user session, the subsequent request is received, and the session data (220) is retrieved from the global session server (212). The subsequent request is then processed using the session data (220) to provide a web page to the user, and the session data (220) is changed to reflect the processing. The session data (220) is then updated in the global session server (212). The global session (212) thereby stores session data (220)...).

7. Reference to claim 19, Courts discloses computer readable medium having stored thereon instructions which, when executed by one or more processors, cause the one or more processors

Art Unit: 2157

to service requests, said computer readable medium comprising: instructions for causing one or more processors (engine 202, acts as processors see col. 7, line 22 – 27 and line 43 - 53) to instantiate a first server process (abstract); instructions for causing one or more processors to instantiate a second server process (abstract); instructions for causing one or more processors to receive a first request pertaining to a particular session; instructions for causing one or more processors to service said first request with said first server process, said first server process storing session information pertaining to said particular session in a shared storage; instructions for causing one or more processors to receive a second request pertaining to said particular session; and instructions for causing one or more processors to service said second request with said second server process, said second server process accessing said session information from said shared storage and using said session information to service said second request (abstract, Courts et al. discloses receiving a request from a user that initiates a user session with the web system and processing the request to provide a web page to the user. Session data (220) representing a state of the user session is stored in memory in a global session server (212). Then, for each subsequent request associated with the user session, the subsequent request is received, and the session data (220) is retrieved from the global session server (212). The subsequent request is then processed using the session data (220) to provide a web page to the user, and the session data (220) is changed to reflect the processing. The session data (220) is then updated in the global session server (212). The global session (212) thereby stores session data (220)...).

Art Unit: 2157

8. Reference to claim 2, Courts teaches the system of claim 1, wherein said second server process updates said session information to derive a set of updated session information, and wherein said second server process stores said updated session information in said shared storage (abstract, Courts et al. discloses session data (220) representing a state of the user session is stored in memory in a global session server (212). Then, for each subsequent request associated with the user session, the subsequent request is received, and the session data (220) is retrieved from the global session server (212). The subsequent request is then processed using the session data (220) to provide a web page to the user, and the session data (220) is changed to reflect the processing. The session data (220) is then updated in the global session server (212). The global session (212) thereby stores session data (220)...).

9. Claims 10 and 11 have the same limitations as claims 1 and 2, thus, claims 10 and 11 are rejected based on the same rational and claims 1 and 2.

10. Claim 20 has the limitation as claims 2 and 11 and is rejected based on the same rational as claim 2 and 11.

11. Regarding claims 9,18, and 27, Courts discloses said second server process sets a busy indicator associated with said session information to indicate that said session information is currently in use, thereby preventing any other server process from using said session information while said second server process is using said session information (col. 7, line 59 – col. 8, line 54

and col. 9, line 30 – 52; Courts discloses locking the session data to indicate that session information is currently in use and to prevent concurrent access).

Claim Rejections - 35 USC § 103

12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

13. **Claims 3, 4, 12, 13, 21, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Courts in view of Bellemore et al., U.S. Pat. No. 6,088,728 (hereinafter Bellemore).**

14. Regarding claim 3, Courts does not disclose updated session information replaces said session information in said shared storage. However, this limitation is well known in the art as evidenced by Bellemore. Bellemore discloses updated session information replaces said session information in said shared storage (col. 9 line 9 – 20). It would have been obvious for a person having ordinary skill in the art at time of the invention to modify Courts by Bellemore in order to save memory space and increase processing time.

Art Unit: 2157

15. Regarding claims 12 and 21, Courts does not disclose storing said updated session information into said shared storage comprises overwriting said session information with said updated session information. Bellemore discloses updated session information replaces said session information in said shared storage (col. 9 line 9 – 20) is equivalent to the overwriting said session information with said updated session information disclosed in the applicant's specification. A person of ordinary skill in the art would have recognized that Bellemore performs a similar function to reach substantially the same result. It would have been obvious for a person having ordinary skill in the art at the time the invention was made to replace Courts method of storing session information with replacing or overwriting former session information of Bellemore to save memory and increase processing time.

16. Regarding claim 4, 13, and 22, Courts discloses a third server process, said third server process servicing a third request pertaining to said particular session, said third server process accessing said updated session information from said shared storage and using said updated session information to service said third request (abstract, Courts et al. discloses receiving a request from a user that initiates a user session with the web system and processing the request to provide a web page to the user. Session data (220) representing a state of the user session is stored in memory in a global session server (212). Then, for each subsequent request associated with the user session, the subsequent request is received, and the session data (220) is retrieved from the global session server (212). The subsequent request is then processed using the session data (220) to provide a web page to the user, and the session data (220) is changed to reflect the

processing. The session data (220) is then updated in the global session server (212). The global session (212) thereby stores session data (220)...

17. Claims 5, 6, 14, 15, 23 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Courts in view of Ault et al., U.S. Pat. No. 6,338,064 (hereinafter Ault).

18. Regarding claims 5, 14 and 23, Courts fails to disclose said shared storage comprises a memory-mapped file. However, Ault disclose a memory-mapped file (col. 5, line 50 – 61). It would have been obvious for one having ordinary skill in the art at the time of the invention to include a memory mapped file in the shared storage of Courts for it would allow an organized and simple way of managing and using the shared memory.

19. Regarding claims 6, 15, and 24, Courts discloses each of said first and second server processes has a memory space associated therewith (Fig. 4, and col. 9, line 16 – col. 10, line 18), Courts does not teach said memory-mapped file is mapped to at least a portion of the memory space associated with said first server process and at least a portion of the memory space associated with said second server process. Ault discloses a memory mapped file (col. 5, line 50 – 61). Nonetheless Ault does not teach said memory-mapped file is mapped to at least a portion of the memory space associated with said first server process and at least a portion of the memory space associated with said second server process. However, it would have been obvious for a person having ordinary skill in the art to recognized the advantageous of including the

above limitations into Courts and Ault in order to link the memory mapped file to the processors in a direct manner to increase accuracy.

20. Claims 7, 8, 16, 17, 25 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Courts in view of Bayeh et al., U.S. Pat. No. 6,098,093 (hereinafter Bayeh).

21. Regarding claim 7, 16 and 25, Courts fails to teach said first server process stores said session information into said shared storage in the form of a serialized byte stream. Nonetheless Bayeh discloses that this limitation is well known in the art. Bayeh discloses server process stores said session information into said shared storage in the form of a serialized byte stream (col. 4, line 40 – 50). It would have been obvious for a person having ordinary skill in the art at the time of the invention to store session information in the form of a serialized byte stream in order to prevent collision of retrieval requests with the update requests and thereby preventing the return of invalid or corrupted session state information to the requesting processes.

22. Regarding claims 8, 17, and 26, Courts does not teach said second server process de-serializes said serialized byte stream prior to using said session information to service said second request. Bayeh discloses session information is stored in the form of in a serialized form(col. 4, line 40 – 50). Bayeh does not explicitly disclose the de-serialization of data prior to using the information to service a second request. However, de-serializing is the opposite of serializing and before storing the information to the storage in serialize form, the information is

in de-serialize form to be utilized for addressing a request. Therefore, it would have been obvious for one having ordinary skill in the art at the time of the invention to de-realize session state information in order to use the information to service the second request.

Conclusion

23. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Pat. No. 6,128,644 to Nozaki

U.S. Pat. No. 6,490,624 to Sampson et al.

U.S. Pat. No. 6,557,038 to Becker et al.

U.S. Pat. No. 6,209,018 to Ben-Shachar et al.

U.S. Pat. No. 6,549,996 to Manry, IV et al.

U.S. Pat. No. 6,336,135 to Niblett et al.

24. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sahera Halim whose telephone number is (703) 305-8054. The examiner can normally be reached on M-F from 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (703) 308-7562. The fax phone numbers for the organization where

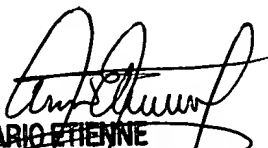
Art Unit: 2157

this application or proceeding is assigned are (703) 746-7239 for regular communications and (703) 746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Sahera Halim
Patent Examiner
Art Unit: 2157

June 16, 2003


ARIO ETIENNE
SUPERVISORY PATENT EXAMINER
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